

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior version and listings of claims in the application:

Listing of Claims:

1. (Canceled).
2. (Canceled).
3. (Currently amended): A method for processing optical signals in a computer mouse-~~as claimed in claim 1 or 2, characterized in that, said laser speckle signals or laser speckle interference signals, characterized in that, a laser beam is provided to illuminate the~~
surface of an object, laser speckles are produced in the vicinity of the illuminated object surface; when the mouse is moving, the signals of the laser speckles are received by a photo sensor, and said laser speckle signals or laser speckle interference installed in the mouse, and the signals are processed, so as to calculate the quantity of laser speckle pulses ~~or laser speckle interferences pulses~~ received by the photo sensor, and to determine the relative displacement between the ~~mouse device photo sensor~~ and the illuminated object surface producing laser speckles on the basis of the average size of the laser speckles ~~or the laser speckle interferences~~.
4. (Currently amended): The A-method for processing optical signals in a computer mouse as claimed in claim 3, characterized in that, said photo sensor has groups of photoelectric sensing units, wherein each group ~~comprises~~ consists of two or more photoelectric sensing units aligned in a line; after laser speckle signals ~~or laser speckle interference signals from on~~ the object surface illuminated by laser beams are received by said groups of photoelectric sensing units, relevant photoelectric signals are amplified and shaped by ~~the group of photoelectric sensing units~~ to calculate the size of the component of the

relative displacement vector between the photo sensor and the illuminated object surface lying in the direction of the alignment of photoelectric sensing units; in the meantime, the direction of said component of the relative displacement vector is determined by the skewing of the electric signals produced by these two or more photoelectric sensing units.

5. (Currently amended): The A-method for processing optical signals in a computer mouse as claimed in ~~claim 3-claim 4~~, characterized in that, said photo sensor has at least two groups of photoelectric sensing units, wherein each group ~~comprises~~ consists of two or more photoelectric sensing units aligned in a line, and at least one group has an aligning direction different from the others, two of the at least two groups are intersectable ~~may-intersect~~ with each other and use common units; after laser speckle signals ~~or laser speckle interference signals from on~~ the object surface illuminated by laser beams are received, relevant photoelectric signals are amplified and shaped by these groups of photoelectric sensing units to calculate the size and direction of the component of relative displacement vector between the photo sensor and the illuminated object surface of the respective group, and the relative displacement vector between the photo sensor and the illuminated object surface in the two-dimensional plane is calculated on the basis of the size and direction of the components of said relative displacement vector calculated by two or more groups in different directions and the intersection angle between the components in different directions.

- 6-8. (Canceled).